

## Spring with spirally-shaped arms.

**Publication number:** EP0298521 (A1)

**Publication date:** 1989-01-11

**Inventor(s):** HAHN MICHAEL; MAIER GEORG

**Applicant(s):** MESSERSCHMITT BOELKOW BLOHM [DE]

**Classification:**


- **international:** *F16F1/32; F16F1/366; F16F1/02; F16F1/36*; (IPC1-7): B29C53/12; F16F1/36


- **European:** F16F1/32R2; F16F1/366

**Application number:** EP19880111038 19880711


**Priority number(s):** DE19873722893 19870710


**Also published as:**


 EP0298521 (B1)


 DE3722893 (C1)

**Cited documents:**

 DE893296 (C)

 FR1550579 (A)

 EP0171706 (A2)

 EP0082321 (A2)

### Abstract of EP 0298521 (A1)

1. Spring with spring arms (1.1, 1.3, 1.3, 1.4) extending in spiral fashion at even lengths between a circular spring core (1.5) and a circular spring frame (1.6) and arranged to be evenly offset whereby the gaps (3.1, 3.2, 3.3, 3.4) of equal lengths between the spring arms (1.1, 1.2, 1.3, 1.4) reduce from their centre towards the two ends, characterised in that the spring is made of fibre-reinforced plastics material whereby each individual spring arm (1.1, 1.3, 1.3, 1.4) has fibres of uni-directional orientation in the direction of extension of the respective spring arm, that the spring core (1.5) and the spring frame (1.6) are formed by joining of material of the respective ends of the spring arms (1.1, 1.2, 1.3, 1.4) whereby the respective combined spring-arm ends are joined by overlapping each other up to the released gap (3.1, 3.2, 3.3 or 3.4 respectively).

